## **COURSE SYLLABUS - ChE 390**

COURSE TITLE	ENGLISH CODE/NO	ARABIC CODE/NO	CREDITS				
COURSE TITLE			Th.	Pr.	Tr.	Tu.	Total
Summer Training	ChE 390	390ھ کم		1	400		2
Pre-requisites:	ChE 334						
Course Role in Curriculum	Required or Elective:			Required			
Course Role in Curriculum	A pre-requisite for:						

## Catalogue Description:

10 weeks of training in industry under the supervision of a faculty member. Students have to submit a report about their achievements during training in addition to any other requirements assigned by the Department

<u>Textbooks</u> :	
None	
Supplemental Materials:	
None	

Cou	rse Learning Outcomes:			
	By the completion of the course the student should be able to:	***************************************		
1.	Formulate an objective or mission statement that identify the real problem and describe the			
<u> </u>	expected outcomes of the training activity.			
2.	Break-down a work environment into its units and work functions, and describe how these			
	units are assembled into a whole entity.			
3.	<b>Describe</b> a professional organizational structure, its size and how it is related to its ma			
	products and to market issues.			
4.	Exhibit integrity, punctuality, and ethical behavior in engineering practice and relationships.			
5.	<b><u>Demonstrate</u></b> enthusiasm and business focusing.			
6.	Establish successful relationships with team members, advisors, and clients to understand			
	their needs and to achieve or exceed agreed-upon quality standards.			
7.				
	demands			
8.	Relate practical work to previous knowledge from basic sciences, engineering fundament			
	and discipline related courses.			
9.	Collect and review related data such as technical information, regul	lations, standards, and		
	operational experiences from credible literature resources			
10.	<u>Utilize</u> prior knowledge, independent research, published information, and original ideas in			
	addressing problems and generating solutions			
11.	Monitor achievement, identify causes of problems, and revise processes to enhance			
	satisfaction			
12. <b>Communicate</b> , clearly and concisely, training details and gained ex				
	andin writing, using necessary supporting material, to achieve desir	red understanding and		
	impact.			
Topi	ics to be Covered:	uration in Weeks		
1.	Acquainting the trainee by the company, its work environment,	2		
	organizational structure, products, costumers, engineering units, and			
	quality system			
2.	Familiarizing the trainee of one production or design unit with deep	1		
	understanding of the work environment, regulations, standards, etc			
3.	Allocating the trainee to a project team and allowing him to study and	1		
	collect necessary data about the project using internal and external			
	data sources.			
4.	Working as a team member to execute assigned tasks	6		

**Key Student Outcomes addressed by the course:** (Put a  $\sqrt{\text{sign}}$ )

(a)	an ability to apply knowledge of mathematics, science, and engineering	
(b)	an ability to design and conduct experiments, as well as to analyze and interpret data	
(c)	an ability to design a system, component, or process to meet desired needs within	√
	realistic constraints such as economic, environmental, social, political, ethical, health	
	and safety, manufacturability, and sustainability	
(d)	an ability to function on multidisciplinary teams	√
(e)	an ability to identify, formulate, and solve engineering problems	1
(f)	an understanding of professional and ethical responsibility	1
(g)	an ability to communicate effectively	1
(h)	the broad education necessary to understand the impact of engineering solutions	√
	in a global, economic, environmental, and societal context	
(i)	a recognition of the need for, and an ability to engage in life-long learning	√
(j)	a knowledge of contemporary issues	1
(k)	an ability to use the techniques, skills, and modern engineering tools necessary for	1
	engineering practice.	

Key Student Outcomes assessed in the course: (f), (g), (h), (j) and (k)

Course Coordinator:	Prof. Hamad Al-Turaif		
Last updated:	January 2015		